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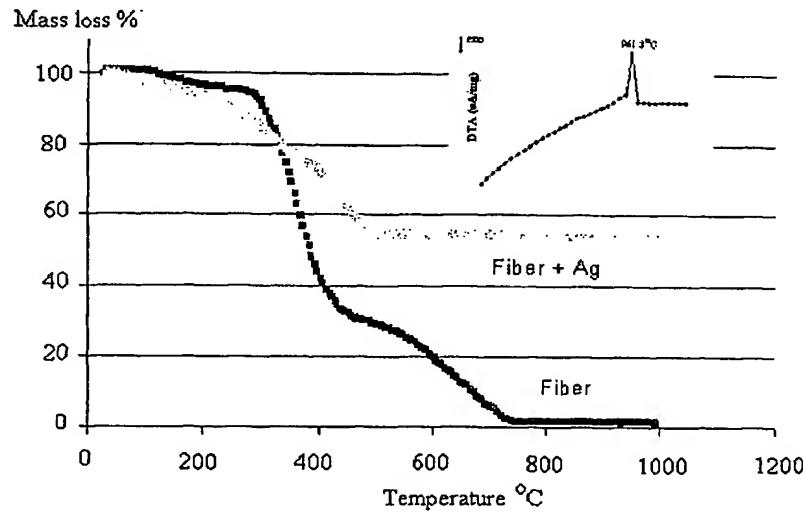
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(54) Title: METAL COATED NANO FIBRES



(57) Abstract: The present invention relates to a process for the metal coating of nano-fibres by electrospinning, to the metal coated nano-fibres obtained by this process and to the use of said metal coated nano-fibres. The process is characterised in that a polymer nano-fibre with functional groups providing the binding ability to a reducing reagent is prepared by electrospinning at ambient conditions. Then this is contacted with a reducing agent, thereby opening the epoxy ring on the surface of polymer nano-fibre and replacing with the reducing agent and the reducing agent modified film is reacted with metal solution in alkaline media. Finally the electrospun mat is treated with water to open the epoxy rings in the structure and crosslinking the chains to provide integrity.

WO 2005/021845 A1



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